

09337500 ESCALANTE RIVER NEAR ESCALANTE, UT

LOCATION.--Lat 37°46'41", long 111°34'26", in NE^{1/4}NW^{1/4}SE^{1/4} sec. 9, T. 35 S., R. 3 E., Garfield County, Hydrologic Unit 14070005, Bureau of Land Management, on left bank 150 ft downstream from Pine Creek and 1.5 mi northeast of Escalante.

DRAINAGE AREA.--320 mi².

PERIOD OF RECORD.--August 1909 to April 1913, October 1942 to September 1955, December 1971 to current year. Published as Escalante Creek near Escalante 1909-13.

REVISED RECORDS.--WSP 1149: 1943(M), 1944, 1945(M). WRD UT-73-1: 1972.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage, 5,670 ft above sea level, from topographic map. Prior to Apr. 30, 1913, staff at approximately same site at different datum.

REMARKS.--Records fair except those for discharges less than 2.0 ft³/s, those for Aug. 21-28, Sept. 2-7, and estimated daily discharges, which are poor. Considerable regulation of low flows by diversion into Wide Hollow Reservoir, an off-stream storage site about 4 mi upstream (capacity 2,320 acre-feet), and by diversion on Pine Creek, for irrigation of about 2,300 acres.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,450 ft³/s August 1953, day unknown, gage height, 9.9 ft from outside high-water mark, from rating curve extended above 150 ft³/s on basis of slope-area measurements at gage heights, 4.60 ft, 5.50 ft, 7.34 ft, and 7.59 ft; minimum daily, 0.07 ft³/s July 11, 1990.

EXTREMES FOR CURRENT YEAR.-- Maximum discharge, 1,900 ft³/s, probably occurred Aug. 4, gage height, 7.43 ft, from rating curve extended above 150 ft³/s as explained above, and at gage heights 5.31 ft and 6.15 ft; minimum daily discharge, 0.22 ft³/s July 16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.92	4.1	e.80	1.9	3.8	e3.5	12	.66	13	.42	e1.0	e1.5
2	15	3.6	e.80	1.9	4.3	4.0	14	.55	13	.36	e1.0	78
3	11	4.9	e.80	23	4.0	3.6	18	.71	12	.37	e1.0	19
4	e1.9	3.8	.74	e2.8	3.6	3.2	24	.54	11	.39	e130	26
5	e1.5	3.4	1.1	e2.0	3.8	3.1	19	.66	9.5	.44	e6.0	63
6	e1.3	2.8	1.9	e2.2	3.2	4.0	8.5	1.6	9.2	.47	e3.0	34
7	e1.2	1.9	2.7	e2.3	e3.0	3.5	15	5.8	9.3	.53	e2.0	41
8	e1.2	2.9	2.7	e2.2	e3.0	10	10	7.0	9.9	.38	e1.5	e130
9	e1.1	4.2	3.0	e2.1	e3.0	25	27	3.9	15	.35	e1.5	e40
10	e1.1	3.3	6.5	e2.0	e3.0	39	20	8.7	17	.85	e7.0	e10
11	e1.1	3.6	11	e1.8	e3.0	51	17	7.6	10	.93	e60	e20
12	e1.2	4.0	3.2	1.7	e3.0	58	19	16	8.3	.59	e6.0	e8.0
13	e1.2	e3.7	2.9	e1.6	e3.0	43	16	16	7.2	.32	e1.4	e7.0
14	e1.3	e3.7	1.9	e1.6	e3.0	33	6.1	16	6.2	.87	e1.3	e40
15	e1.3	e4.0	e1.5	e1.5	e3.2	27	22	13	5.5	.76	e1.3	e100
16	e1.2	3.0	.93	e1.5	3.8	20	13	6.2	4.3	.22	e1.2	e40
17	e1.2	2.1	e1.0	e1.5	3.4	7.4	18	4.1	3.0	.58	e1.1	12
18	e1.3	3.8	e.80	e1.5	3.5	3.3	2.8	4.1	2.0	.64	e3.0	20
19	e1.4	4.6	e.90	e1.6	3.7	3.4	.51	6.2	1.3	.31	e1.0	24
20	e1.3	4.3	e1.0	e1.8	3.4	5.0	.69	13	1.0	.35	e.90	12
21	e11	4.4	e1.3	e2.0	2.0	13	1.0	.94	.94	.76	20	10
22	14	9.8	e1.4	2.3	e2.0	12	2.0	.28	.82	.75	9.4	8.7
23	7.6	6.3	e1.6	e2.3	e2.0	2.8	2.0	.50	.73	.42	52	8.4
24	6.8	3.7	e1.8	e2.3	e2.2	3.8	4.5	.48	.73	.41	12	8.2
25	8.5	4.0	e2.0	2.4	e2.2	2.7	1.0	.43	.70	.37	1.6	8.0
26	7.0	3.8	2.2	e2.4	2.5	3.1	.86	.36	.73	.41	1.5	151
27	8.7	1.3	2.6	e2.5	2.2	2.3	1.2	.30	.65	.47	23	27
28	14	.74	2.4	e2.8	2.9	14	1.3	.25	.64	6.1	3.7	11
29	8.4	e.80	2.1	e2.8	---	12	1.2	.21	.53	6.2	e2.0	8.9
30	8.1	e.80	2.0	e3.0	---	6.8	2.6	.22	.50	e2.0	e2.0	7.5
31	4.3	---	2.0	3.7	---	9.1	---	18	---	e1.0	e3.0	---
TOTAL	147.12	107.34	67.57	87.0	85.7	431.6	300.26	476.32	174.67	29.02	361.40	974.2
MEAN	4.75	3.58	2.18	2.81	3.06	13.9	10.0	15.4	5.82	.94	11.7	32.5
MAX	15	9.8	11	23	4.3	58	27	50	17	6.2	130	151
MIN	.92	.74	.74	1.5	2.0	2.3	.51	.54	.50	.22	.90	.15
AC-FT	292	213	134	173	170	856	596	945	346	58	717	1930

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943-55, 1973-97, BY WATER YEAR (WY)

MEAN	7.41	6.68	7.14	8.24	9.98	12.2	14.5	22.4	18.0	6.19	8.18	6.36
MAX	29.9	23.8	18.1	26.4	23.8	39.7	54.8	124	125	30.5	30.8	32.5
(WY)	1973	1988	1943	1950	1943	1989	1993	1973	1983	1944	1983	1997
MIN	.90	.80	.77	.96	1.21	.67	1.23	.88	.48	.47	.84	.73
(WY)	1991	1991	1991	1991	1993	1991	1990	1954	1990	1978	1978	1955

SUMMARY STATISTICS FOR 1996 CALENDAR YEAR FOR 1997 WATER YEAR WATER YEARS 1943-55, 1973-97

ANNUAL TOTAL	1597.21	3242.20		
ANNUAL MEAN	4.36	8.88	10.8	
HIGHEST ANNUAL MEAN			30.7	1973
LOWEST ANNUAL MEAN			1.49	1991
HIGHEST DAILY MEAN	133	Aug 26	300	Aug 16 1947
LOWEST DAILY MEAN	.19	Aug 8	.07	Jul 11 1990
ANNUAL SEVEN-DAY MINIMUM	.22	Aug 5	.18	Aug 26 1990
ANNUAL RUNOFF (AC-FT)	3170	6430	7800	
10 PERCENT EXCEEDS	11	22	23	
50 PERCENT EXCEEDS	1.9	3.0	4.7	
90 PERCENT EXCEEDS	.46	.74	1.1	

e Estimated